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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/872,289	06/01/2001	Ofer Iny	2117P	2383
49443	7590	06/14/2005	EXAMINER	
PEARL COHEN ZEDEK, LLP 10 ROCKEFELLER PLAZA SUITE 1001 NEW YORK, NY 10020			DAVIS, CYNTHIA L	
			ART UNIT	PAPER NUMBER
			2665	

DATE MAILED: 06/14/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

# Office Action Summary

Application No.

09/872,289

Applicant(s)

INY, OFER

Examiner

Cynthia L Davis

Art Unit

2665

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

## Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

## Status

- 1) ☒ Responsive to communication(s) filed on 3/23/2005.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

## Disposition of Claims

- 4) ☒ Claim(s) 8-33 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 8-33 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

## Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 23 March 2005 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

## Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

## Attachment(s)

- |   |   |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)             | 4) <input type="checkbox"/> Interview Summary (PTO-413)                     |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)    | Paper No(s)/Mail Date. _____  |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| Paper No(s)/Mail Date _____   | 6) <input type="checkbox"/> Other: _____                                    |

## DETAILED ACTION

### *Claim Rejections - 35 USC § 102*

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

1. Claims 8-11, 16-24, and 29-33 are rejected under 35 U.S.C. 102(b) as being anticipated by Webber.

Regarding claim 8, sequentially inserting said packet into a circular first-in-first-out memory scheme and selectively associating said packets with said plurality queues is disclosed in Webber, column 3, lines 2-5.

Regarding claims 9 and 22, removing said packets from said memory scheme according to said plurality queues is disclosed in Webber, column 3, lines 5-7.

Regarding claim 10, said plurality of queues comprises a plurality of independent first-in-first-out queues is disclosed in column 2, lines 49-50 (the sets act as independent fifos).

Regarding claims 11 and 24, sequentially inserting said packets comprises: inserting a start of a packet at a memory word indicated by a write pointer; and advancing said write pointer to indicate a memory word located after a memory word containing an end of said packet is disclosed in column 6, lines 22-27 (disclosing operations using the tail pointer that write the packet and advance the pointer into the queue).

Regarding claims 16 and 29, wherein said associating comprises updating queue information associating between said packets and said plurality of queues is disclosed in column 2, lines 57-58 (disclosing information associating the packets with the sets).

Regarding claims 17 and 30, updating said queue information comprises updating queue information corresponding to a packet being inserted into said memory scheme is disclosed in column 3, lines 2-5.

Regarding claims 18 and 31, updating said queue information comprises updating queue information corresponding to a packet being removed from said memory scheme is disclosed in column 3, lines 5-7.

Regarding claims 19 and 32, said queue information comprises one or more values corresponding to at least one of a header pointer of a queue, a tail pointer of said queue, and a link pointer linking between two consecutive packets of said queue is disclosed in column 5, lines 56 and 58-9.

Regarding claims 20 and 33, a capacity of said memory scheme is predetermined based on an expected rate for receiving said packets into said memory scheme is disclosed in Webber, column 6, lines 32-47 (disclosing a dequeuing operation that occurs continuously over the entire fifo in order to deliver the packets to their intended recipients at a desired rate and clear the memory for incoming packets).

Regarding claim 21, a system for managing a plurality of queues of received packets, the system comprising: a circular first-in-first-out memory scheme to sequentially store said packets; and a memory manager able to associate said packets with said plurality of queues is disclosed in Webber, column 3, lines 2-5.

Regarding claim 23, said plurality of queues comprises a plurality of first-in-first-out queues is disclosed in column 2, lines 49-50 (the sets act as fifos).

***Claim Rejections - 35 USC § 103***

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

2. Claims 12-15 and 25-28 are rejected under 35 U.S.C. 103(a) as being unpatentable over Webber in view of Gallup.

Regarding claims 12 and 25, sequentially inserting said packets comprises advancing a delete pointer jointly with said write pointer is disclosed in Webber, column 6, lines 32-47 (disclosing a dequeueing operation that occurs continuously over the entire fifo). An empty zone of a predetermined length is maintained between said write pointer and said delete pointer is missing from Webber. However, Gallup discloses in figure 2-59, and column 47, lines 8-12 (the global pointers are padded with empty space). It would have been obvious to one skilled in the art at the time of the invention to have an empty zone between the global pointers. The motivation would be to allow for future growth in the memory.

Regarding claims 13 and 26, dropping an indicated packet corresponding to a memory word indicated by said delete pointer, if said indicated packet is linked to one of said plurality of queues is disclosed in Webber, column 6, lines 32-47 (disclosing dequeueing) and column 8, lines 47-50 (disclosing dequeueing from specific sets).

Regarding claims 14 and 27, determining if said indicated packet is linked to one of said plurality of queues by comparing a location of the memory word indicated by

said delete pointer to a location indicated by a head pointer of a queue associated with said memory word is disclosed in Webber, column 6, lines 32-47 (disclosing dequeueing) and column 8, lines 29-32 (disclosing determining which set the zero packet belongs to).

Regarding claims 15 and 28, determining a queue associated with said memory word based on information associating between a plurality of memory words and said plurality of queues is disclosed in column 9, lines 8-11 (disclosing checking as many packets belonging to as many sets as necessary to find the right set identifier, or memory word).

### ***Conclusion***

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Cynthia L Davis whose telephone number is (571) 272-3117. The examiner can normally be reached on 8:30 to 6, Monday to Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Huy Vu can be reached on (571) 272-3155. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

CLD  
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